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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/656,740	09/05/2003	Toshisada Koyama	051319/0057	9074
29619	7590 07/18/2005		EXAM	INER
SCHULTE ROTH & ZABEL LLP			TUPPER, ROBERT S	
ATTN: JOEL	LE. LUTZKER AVENUE		ART UNIT	PAPER NUMBER
,	NEW YORK, NY 10022			

DATE MAILED: 07/18/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Commons	10/656,740	KOYAMA, TOSHISADA			
Office Action Summary	Examiner	Art Unit			
	Robert S. Tupper	2652			
The MAILING DATE of this communication Period for Reply	appears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication If the period for reply specified above, the maximum statutory period for reply within the set or extended period for reply will, by stany reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	N). R 1.136(a). In no event, however, may a reply be reply within the statutory minimum of thirty (30) d riod will apply and will expire SIX (6) MONTHS fro atute, cause the application to become ABANDON	timely filed ays will be considered timely. om the mailing date of this communication. NED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 1	3 July 2005.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) Claim(s) <u>1-6</u> is/are pending in the application 4a) Of the above claim(s) is/are with 5) Claim(s) is/are allowed. 6) Claim(s) <u>1-6</u> is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction are	drawn from consideration.				
Application Papers	·				
9)☐ The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a)					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for fore	oign priority under 25 LLS C & 110/	(a) (d) or (f)			
a) Acknowledgment is made of a claim for lots a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the priority docum application from the International Bu * See the attached detailed Office action for a	nents have been received. Itents have been received in Applications Itents have been received in Applications Itents have been received in Rule 17.2(a)	ation No ved in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summa	ry (PTO 413)			
 Notice of References Cited (P10-892) Notice of Draftsperson's Patent Drawing Review (PT0-948) 	Paper No(s)/Mail	Date			
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB Paper No(s)/Mail Date 	/08) 5) Notice of Informal	Patent Application (PTO-152)			

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1. Prosecution on the merits of this application is reopened on claims 1-6 considered unpatentable for the reasons indicated below:

The following is a quotation of the appropriate paragraphs of 35
 U.S.C. 102 that form the basis for the rejections under this section made in this
 Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claim 1 is rejected under 35 U.S.C. 102(b) as being clearly anticipated by ROBINSON et al (5,529,404).

Note figure 4 and column 5 lines 1-33. ROBINSON et al shows a pivot assembly (60) having two ball bearings (71,78) with outer rings (races – not numbered), a shaft (74), an inner wall part (spacer 69) contacting the outer races, and a sleeve (80) spanning both outer races and contacting the inner wall part/spacer. The sleeve is laser welded to the outer races of the bearings (see column 5 lines 24-25).

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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In claim 2 on both lines 4 and 5, "said outer ring" is indefinite. There are two ball bearings and two outer rings. It is unclear what the positioning of the elements is.

In claim 5 on lines 3-4 and 5, , "said outer ring" is indefinite. There are two ball bearings and two outer rings. It is unclear what the positioning of the elements is.

In claim 6, on line 2, "the outer ring of the bearing" is indefinite. There are two ball bearings and two outer rings. It is unclear what the positioning of the elements is.

6. Claim 1 is objected to because of the following informalities:

On line 8, "each of" should be inserted before "said" to clearly indicate that the inner wall part extends to the outer circumference of both outer rings.

Appropriate correction is required.

- 7. Claims 2-6 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 8. The following is a statement of reasons for the indication of allowable subject matter:

Concerning claim 2, the prior art does not teach or suggest a pivot assembly for a hard disk drive having two ball bearings including outer races, a shaft to which the ball bearings are mounted, one at each end thereof, a spacer located around the shaft with its outer circumference matching that of the outer circumference of the outer races of

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the bearings, and a sleeve spanning the outer races of each bearing and mated with the spacer, where the sleeve has a concave part in its outer circumference with a bottom wall that is laser welded to the outer circumference of the outer races.

Concerning claim 5, the prior art does not teach or suggest a pivot assembly for a hard disk drive having two ball bearings including outer races, a shaft to which the ball bearings are mounted, one at each end thereof, a spacer located around the shaft with its outer circumference matching that of the outer circumference of the outer races of the bearings, and a sleeve spanning the outer races of each bearing and mated with the spacer, where the sleeve has a hole extending from its outer circumference to the outer circumference of the outer races and an edge part of the holes laser welded to the outer circumference of the outer races.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert S. Tupper whose telephone number is 571-272-7581. The examiner can normally be reached on Mon - Fri, 6:30 AM - 4:00 PM (first Fri off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa Nguyen can be reached on 571-272-7579. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Robert S Tupper Primary Examiner Art Unit 2652

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